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10/634,080

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Thomas M. Tirpak

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EXAMINER

MORRISON, JAY A

ART UNIT

PAPER NUMBER

2168

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/634,080	<b>Applicant(s)</b> TIRPAK ET AL.	
	<b>Examiner</b> JAY A. MORRISON	<b>Art Unit</b> 2168	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,5-12,14-22,25,27 and 28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,5-12,14-22,25,27 and 28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Remarks***

1. Claims 1, 5-12, 14-22, 25, 27 and 28 are pending.

### ***Claim Objections***

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: "computer readable medium" as in claim 25 is not disclosed in the specification.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1, 5-12, 14-22, 25, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. ('Liu' hereinafter) ("XWRAP: an XML-enabled wrapper construction system for Webinformation sources", Proceedings of the 16th International Conference on Data Engineering, Publication Date: 2000, pgs 611-621) in view of Keith (Patent Number 6,629,097).

As per claim 1, Liu teaches

A data management system comprising: (see abstract, where XWRAP inherently needs to work on a system for managing data)

a processing device; (users use mouse to select means there is a processing device, abstract, second paragraph)

memory containing executable instructions that cause the processing device to perform as a knowledge container creator module operative to create at least a first data descriptor item and at least a second data descriptor item (encoding extraction rules into XML template, pages 3-4, section 2.1, "Code Generation" paragraph) based upon a data item capable of containing data (XML template file, page 14, section 4.3, third paragraph), and to link the data item to at the least a first data descriptor item, and to link the data item to the at least a second data descriptor item (XWRAP creates parse tree where leafs act as links, page 12, section 4.2, "Example 3");

and wherein the first data descriptor item is in the form of a context descriptor (XML templates contain field for specified source document fields, page 15, section 4.3, fourth paragraph), and wherein the second data descriptor item is in the form of at least a data access instructions descriptor (XML templates containing processing instructions, page 15, section 4.3, fourth paragraph).

Liu does not explicitly indicate "raw" and "representing data that is in one of a plurality of different formats".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54) and "representing data that is in one of a plurality of different formats" (myriad of sources, column 18, lines 8-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" and

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“representing data that is in one of a plurality of different formats” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 5, Keith teaches

A data management system comprising: (see abstract, where XWRAP inherently needs to work on a system for managing data)

a processing device; (users use mouse to select means there is a processing device, abstract, second paragraph)

and memory containing executable instructions that cause the processing device to perform as a knowledge container creator module, to at least a first data descriptor item, in XML format (XML template file, page 14, section 4.3, third paragraph), wherein the first data descriptor item is in the form of a context descriptor containing descriptive information about the data item (XML templates contain field for specified source document fields, page 15, section 4.3, fourth paragraph), and wherein the knowledge container creator module is operative to link the data item to at least a second data descriptor item, in XML format (XWRAP creates parse tree where leafs act as links, page 12, section 4.2, “Example 3”), wherein the second data descriptor item is in the form of at least a data access instructions descriptor, providing instructions on how to

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access the data in the data item; (XML templates containing processing instructions, page 15, section 4.3, fourth paragraph)

a knowledge container searcher module operative to retrieve the data item by searching at least one of: the first and second data descriptor items; (XML templates containing field identifiers and instructions for processing source, page 14, section 4.3, fourth paragraph)

a base knowledge container update module that is operative to format the data item into a specific XML knowledge container format. (XML output which can be parsed, page 2, section 1, fourth paragraph)

Liu does not explicitly indicate “raw” and “operative to link a data item that is in one of a plurality of different formats”.

However, Keith discloses “raw” (raw data processing, column 25, lines 53-54) and “operative to link a data item that is in one of a plurality of different formats” (myriad of sources, column 18, lines 8-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “raw” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 6, Liu teaches

the knowledge container creator module is operative to generate the first data descriptor item based upon the data item (code generator produces XML template, page 3-4, section 2.1, "Code Generation" paragraph).

Liu does not explicitly indicate "raw".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 7, Liu teaches

a base knowledge container update module that is operative to generate the second data descriptor item based upon the data item (generate wrapper, page 3-4, section 2.1, "Testing and Packing" paragraph).

Liu does not explicitly indicate "raw".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives



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the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 8, Liu teaches

a base knowledge container update module that is operative to format the first and second data descriptor items in XML knowledge container format. (XML templates, page 3, section 2.1, “Code Generation” paragraph)

As per claim 9, Liu teaches

a knowledge container administrator module operative to modify a template descriptor item (update, pages 3-4, section 2.1, “Testing and Packing” paragraph), for creating the first data descriptor item and for searching the first and second data descriptor items, wherein the template descriptor item includes at least one of: template knowledge containers (XML templates, pages 3-4, section 2.1, “Testing and Packing” paragraph), for providing the inputs for entering the context descriptor, search template knowledge containers, for providing the inputs for searching the data descriptor items (testing structure and steps, assigning information to wrapper, pages 3-4, section 2.1, “Testing and Packing” paragraph).

Liu does not explicitly indicate “raw” and “and dictionary knowledge containers, for identifying keywords”.

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However, Keith discloses “raw” (raw data processing, column 25, lines 53-54) and “and dictionary knowledge containers, for identifying keywords” (column 25, lines 44-47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “raw” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 10, Liu teaches  
modifying template descriptor item includes at least one of: adding fields, removing fields, adding keywords and removing keywords (updates to rules, pages 3-4, section 2.1, “Testing and Packing” paragraph).

As per claim 11, Liu teaches  
a knowledge container administrator module operative to create knowledge transformation information by extrapolating data from the data item and operative to link the data item to the knowledge transformation information (XWRAP creates parse tree where leafs act as links, page 12, section 4.2, “Example 3”).

Liu does not explicitly indicate “raw”.

However, Keith discloses “raw” (raw data processing, column 25, lines 53-54).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “raw” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 12, Liu teaches

the knowledge container administrator module is operative to create a knowledge model using knowledge discovery techniques on the data item in the form of at least one of: decision trees, rule sets, neural networks and expression trees (page 3, section 2.1, “Code Generation” paragraph).

Liu does not explicitly indicate “raw”.

However, Keith discloses “raw” (raw data processing, column 25, lines 53-54).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “raw” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 14, Liu teaches

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the base knowledge container update module (page 3-4, section 2.1, “Testing and Packing” paragraph).

Liu does not explicitly indicate “generates a keyword descriptor by processing the raw data item”.

However, Keith discloses “generates a keyword descriptor by processing the raw data item” (column 25, lines 53-58).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “generates a keyword descriptor by processing the raw data item” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 15, Liu teaches

a knowledge container database operative to store the data item, the first data descriptor item, and the second data descriptor item (XML templates and resulting XML file, page 14, section 4.3, fourth full paragraph).

Liu does not explicitly indicate “raw”.

However, Keith discloses “raw” (raw data processing, column 25, lines 53-54).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “raw” would have given

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those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 16, Liu teaches

the base knowledge container comprises: a knowledge source depository containing the data item (source document, page 5, section 2.2, third paragraph);

and a metaknowledge depository containing the at least two data descriptor items associated with the data item (rules, pages 3-4, section 2.1, "Code Generation" paragraph; rulebase, figure 1).

Liu does not explicitly indicate "raw".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 17, Liu teaches

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the base knowledge container further comprises a knowledge representation depository containing the knowledge transformation information generated from the data item (resulting XML file, page 14, section 4.3, fourth full paragraph; figure 10).

Liu does not explicitly indicate "raw".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 18, Liu teaches

the knowledge transformation information is in the form of at least one of: knowledge model and summary report (resulting XML file contains information about the processed data file, page 14, section 4.3, fourth full paragraph; figure 10).

As per claim 19, Liu teaches

the knowledge model is in the form of at least one of: decision trees, rule sets, neural networks and expression trees (rules, section 2.1, pages 3-4, "Code Generation" paragraph).

As per claim 20, Liu teaches

the first and second data descriptor items are in the form of at least one of the following: decision-support data descriptor, keyword descriptor, context descriptor and data access instructions descriptor (semantic knowledge in the form of rules, section 2.1, pages 3-4, "Code Generation" paragraph).

As per claim 21, Liu teaches

the data item, the first descriptor item and the second descriptor item are stored in a XLM data blocks. (XML templates which contain blocks, page 14, section 4.3, fourth full paragraph; figure 10)

Liu does not explicitly indicate "raw".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 22, Keith teaches

the XML data blocks (parseable XML, page 2, section 1, fourth paragraph)

Liu does not explicitly indicate “are defined by a data block definition with a form including at least one of: a table and a matrix”.

However, Keith discloses “are defined by a data block definition with a form including at least one of: a table and a matrix” (column 25, lines 55-56).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “are defined by a data block definition with a form including at least one of: a table and a matrix” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 25, Keith teaches

A computer readable medium containing programming instructions for processing data, the computer readable medium including programming instructions for: (see abstract, where XWRAP inherently needs to work on a system for managing data)

linking a data item, capable of containing data representing data stored (XWRAP creates parse tree where leafs act as links, page 12, section 4.2, “Example 3”), to at least a first data descriptor item wherein the first data descriptor item is in the form of a context descriptor, containing descriptive information about the data item (XML templates contain field for specified source document fields, page 15, section 4.3, fourth paragraph), linking the data item to at least a second data descriptor item (XWRAP



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creates parse tree where leafs act as links, page 12, section 4.2, "Example 3"), wherein the second data descriptor item is in the form of at least a data access instructions descriptor, providing instructions on how to access the data in the data item (XML templates containing processing instructions, page 15, section 4.3, fourth paragraph);

locating the data item by searching at least one of: the first and second data descriptor items (XML templates contain field for specified source document fields, page 15, section 4.3, fourth paragraph);

generating knowledge transformation information by extrapolating data from the data item (XML templates containing processing instructions, page 15, section 4.3, fourth paragraph);

and creating the first and second data descriptor items based upon the data item (XML templates containing field identifiers and instructions for processing source, page 14, section 4.3, fourth paragraph).

Liu does not explicitly indicate "raw" and "that is in one of a plurality of different formats".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54) and "that is in one of a plurality of different formats" (myriad of sources, column 18, lines 8-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" and "that is in one of a plurality of different formats" would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data

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sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 27, Liu teaches

A data management system comprising: (see abstract, where XWRAP inherently needs to work on a system for managing data)

a processing device; (users use mouse to select means there is a processing device, abstract, second paragraph)

and memory containing executable instructions that cause the processing device to perform as a knowledge container creator module operative to create at least a first data descriptor item and at least a second data descriptor item based upon the data item (XML templates containing field identifiers and instructions for processing source, page 14, section 4.3, fourth paragraph), capable of containing data, and to link a data item to at the least a first data descriptor item, and the knowledge container creator module operative to link the data item to the at least a second data descriptor item (XWRAP creates parse tree where leafs act as links, page 12, section 4.2, "Example 3"), wherein the second data descriptor item is in the form of at least a decision-support data descriptor, containing a decision-support information generated from the data; (generate wrapper, page 3-4, section 2.1, "Testing and Packing" paragraph)

and a data access instructions descriptor, providing instructions on how to access the data in the data item; (XML templates containing processing instructions, page 15, section 4.3, fourth paragraph)

and a knowledge container searcher module operative to retrieve the data item by searching at least one of: the first and second data descriptor items; (XML output which can be parsed, page 2, section 1, fourth paragraph)

a knowledge container administrator module operative to modify template descriptor item for creating the first data descriptor item and for searching the first and second data descriptor items, wherein the template descriptor item includes at least one of: (updates to rules, pages 3-4, section 2.1, "Testing and Packing" paragraph)

template knowledge containers, for providing the inputs for entering the context descriptor, (testing structure and steps, assigning information to wrapper, pages 3-4, section 2.1, "Testing and Packing" paragraph)

search template knowledge containers, for providing the inputs for searching the data descriptor items, (XML output which can be parsed, page 2, section 1, fourth paragraph)

and the knowledge container administrator module operative to create knowledge transformation information by extrapolating data from the data item and operative to link the data item to the knowledge transformation information; (updates to rules, pages 3-4, section 2.1, "Testing and Packing" paragraph; creates parse tree where leafs act as links, page 12, section 4.2, "Example 3")

and a base knowledge container update module operative to format the data item into an XML knowledge container format; (XML templates and resulting XML file, page 14, section 4.3, fourth full paragraph)

a knowledge container database operative to store the data item, the first descriptor item and the second descriptor item and the knowledge container database further having: a knowledge source depository containing the data item; (XML templates and resulting XML file, page 14, section 4.3, fourth full paragraph; rulebase and source-specific wrapper, figure 1)

a metaknowledge depository containing the data descriptor item associated with the data item; (XWRAP rulebase and source-specific wrapper, figure 1)

and a knowledge representation depository containing the knowledge transformation information generated from the data item.

Liu does not explicitly indicate “raw”, “representing raw data that is in one of a plurality of different formats”, “a keyword descriptor, identifying keywords contained in the raw data item”, “and to generate a keyword descriptor by processing the raw data item” and “dictionary knowledge containers, for identifying keywords”.

However, Keith discloses “raw” (raw data processing, column 25, lines 53-54), “representing raw data that is in one of a plurality of different formats” (myriad of sources, column 18, lines 8-20), “a keyword descriptor, identifying keywords contained in the raw data item” (concept terms, column 25, lines 22-25), “and to generate a keyword descriptor by processing the raw data item” (terms in matrix, column 25, lines

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55-57) and “dictionary knowledge containers, for identifying keywords” (column 25, lines 44-47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of “raw”, “representing raw data that is in one of a plurality of different formats”, “a keyword descriptor, identifying keywords contained in the raw data item”, “and to generate a keyword descriptor by processing the raw data item” and “dictionary knowledge containers, for identifying keywords” would have given those skilled in the art the tools to improve the invention by allowing the indexing and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

As per claim 28

A data management system comprising: (see abstract, where XWRAP inherently needs to work on a system for managing data)

a processing device; (users use mouse to select means there is a processing device, abstract, second paragraph)

memory containing executable instructions that cause the processing device to perform as a knowledge container creator module operative to create at least a first data descriptor item and at least a second data descriptor item based upon a data item (XML templates containing field identifiers and instructions for processing source, page 14, section 4.3, fourth paragraph), capable of containing data, and to link the data item

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to at the least a first data descriptor item, to link the data item to the at least a second data descriptor item (XWRAP creates parse tree where leafs act as links, page 12, section 4.2, "Example 3"), wherein the first data descriptor item is in the form of a context descriptor (XML templates containing field identifiers and instructions for processing source, page 14, section 4.3, fourth paragraph), and wherein the second data descriptor item is in the form of at least a data access instructions descriptor (XML templates containing processing instructions, page 15, section 4.3, fourth paragraph), and the executable instructions cause the processor to generate a plurality of knowledge models for the data item by analyzing information in the data items wherein the plurality of different knowledge models are in different formats (XML template file, page 14, section 4.3, third paragraph, where the testing and packing allows for different formatting of rule sets which are knowledge models for the source data, pages 3-4, section 2.1, "Testing and Packing" paragraph).

Liu does not explicitly indicate "raw" and "representing raw data that is in one of a plurality of different formats".

However, Keith discloses "raw" (raw data processing, column 25, lines 53-54) and "representing raw data that is in one of a plurality of different formats" (myriad of sources, column 18, lines 8-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Liu and Keith because using the steps of "raw" and "representing raw data that is in one of a plurality of different formats" would have given those skilled in the art the tools to improve the invention by allowing the indexing

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and searching of data sources which are not in a database format. This gives the user the advantage of the ability to quickly utilize these data sources which are too large in number to search otherwise.

### ***Response to Arguments***

5. Applicant's arguments with respect to claim 1, 5-12, 14-22, 25, 27 and 28 have been considered but are moot in view of the new ground(s) of rejection in view of the newly added Liu reference. It is noted that Keith continues to teach "raw" information as well as raw sources in a plurality of formats, keyword identification, and dictionary contains, however these limitations were not argued by the applicant.

### ***Conclusion***

6. The prior art made of record, listed on form PTO-892, and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay A. Morrison whose telephone number is (571) 272-7112. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jay Morrison/

Jay Morrison  
TC2100